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1 Xor-trees for efficient anonymous multicast and reception

Shlomi Dolev, Rafail Ostrobsky
May 2000 ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue
Publisher: ACM
Full text available: Pdf (296.45 KB) Additional Information: full citation, abstract, references, cited by, index te

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 66, Citation Count: 4

We examine the problem of efficient anonymous multicast and reception in general communicat networks. We present algorithms that achieve anonymous communication, are protected agains analysis, and require O(1) amortized communication ...

Keywords: anonymous communication, anonymous multicast

2 Revealing skype traffic: when randomness plays with you

Dario Bonfiglio, Marco Mellia, Michela Meo, Dario Rossi, Paolo Tofanelli
August 2007 SIGCOMM '07: Proceedings of the 2007 conference on Applications, technologies, arc and protocols for computer communications
Publisher: ACM
Full text available: Pdf (911.54 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 52, Downloads (12 Months): 745, Citation Count: 0

Skype is a very popular VoIP software which has recently attracted the attention of the researcl community and network operators. Following a closed source and proprietary design, Skype pro algorithms are unknown. Moreover, strong encryption ...

Keywords: deep packet inspection, internet traffic identification, naive bayesian classification, measurement, pearson chi-square test

3 Revealing skype traffic: when randomness plays with you

Dario Bonfiglio, Marco Mellia, Michela Meo, Dario Rossi, Paolo Tofanelli
October 2007 ACM SIGCOMM Computer Communication Review, Volume 37 Issue 4
Publisher: ACM
Full text available: Pdf (911.54 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 52, Downloads (12 Months): 745, Citation Count: 0

Skype is a very popular VoIP software which has recently attracted the attention of the researcl

community and network operators. Following a closed source and proprietary design, Skype pro algorithms are unknown. Moreover, strong encryption ...

Keywords: deep packet inspection, internet traffic identification, naive bayesian classification, measurement, pearson chi-square test

4 Certified email with a light on-line trusted third party: design and implementation

Martín Abadi, Neal Glew
May 2002 WWW '02: Proceedings of the 11th international conference on World Wide Web
Publisher: ACM
Full text available: Pdf (189.19 KB) Additional Information: full citation, abstract, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 68, Citation Count: 11

This paper presents a new protocol for certified email. The protocol aims to combine security, sc easy implementation, and viable deployment. The protocol relies on a light on-line trusted third can be implemented without any special ...

5 Escrow services and incentives in peer-to-peer networks

Bill Horne, Benny Pinkas, Tomas Sander
October 2001 EC '01: Proceedings of the 3rd ACM conference on Electronic Commerce
Publisher: ACM
Full text available: Pdf (265.69 KB) Additional Information: full citation, abstract, references, cited by, index te

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 53, Citation Count: 8

Distribution of content, such as music, remains one of the main drivers of P2P development. Sul based services are currently receiving a lot of attention from the content industry as a viable bu model for P2P content distribution. One ...

6 TestU01: A C library for empirical testing of random number generators

Pierre L'Ecuyer, Richard Simard
August 2007 ACM Transactions on Mathematical Software (TOMS), Volume 33 Issue 4
Publisher: ACM
Full text available: Pdf (801.63 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 436, Citation Count: 1

We introduce *TestU01*, a software library implemented in the ANSI C language, and offering a c utilities for the empirical statistical testing of uniform random number generators (RNGs). It pro general implementations of the classical ...

Keywords: Statistical software, random number generators, random number tests, statistical t

7 Some facets of complexity theory and cryptography: A five-lecture tutorial

Jörg Rothe
December 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 4
Publisher: ACM
Full text available: Pdf (2.78 MB) Additional Information: full citation, abstract, references, cited by, index te

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 530, Citation Count: 1

In this tutorial, selected topics of cryptology and of computational complexity theory are presen give a brief overview of the history and the foundations of classical cryptography, and then mov modern public-key cryptography. Particular ...

Keywords: Complexity theory, interactive proof systems, one-way functions, public-key crypto zero-knowledge protocols

8 High dynamic range imaging

Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: Pdf (20.22 MB) Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 81, Downloads (12 Months): 790, Citation Count: 0

Current display devices can display only a limited range of contrast and colors, which is one of t reasons that most image acquisition, processing, and display techniques use no more than eight color channel. This course outlines recent ...

9 Compressed full-text indexes

Gonzalo Navarro, Veli Mäkinen
April 2007 ACM Computing Surveys (CSUR), Volume 39 Issue 1
Publisher: ACM
Full text available: Pdf (1.09 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 96, Downloads (12 Months): 960, Citation Count: 9

Full-text indexes provide fast substring search over large text collections. A serious problem of t indexes has traditionally been their space consumption. A recent trend is to develop indexes tha the compressibility of the text, so that ...

Keywords: Text indexing, entropy, text compression

10 Implementing sorting in database systems

Goetz Graefe
September 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 3
Publisher: ACM
Full text available: Pdf (518.63 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 1307, Citation Count: 2

Most commercial database systems do (or should) exploit many sorting techniques that are pub known, but not readily available in the research literature. These techniques improve both sort performance on modern computer systems and the ability to ...

Keywords: Key normalization, asynchronous read-ahead, compression, dynamic memory resou allocation, forecasting, graceful degradation, index operations, key conditioning, nested iteratior

11 Securing distributed storage: challenges, techniques, and systems

Vishal Kher, Yongdae Kim
November 2005 StorageSS '05: Proceedings of the 2005 ACM workshop on Storage security and su
Publisher: ACM

Full text available: Pdf (294.61 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 384, Citation Count: 4

The rapid increase of sensitive data and the growing number of government regulations that rec longterm data retention and protection have forced enterprises to pay serious attention to stora security. In this paper, we discuss important security ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

12 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh
January 2006 ACM Oral History interviews
Publisher: ACM
Full text available: Pdf (974.87 KB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 66, Downloads (12 Months): 511, Citation Count: 0

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high sc East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent t in the Southwest Pacific Theater, during ...

13 Proceedings of the 2007 ACM symposium on Applied computing

Yookun Cho, Yong Wan Koo, Roger L. Wainwright, Hisham M. Haddad, Sung Y. Shin
March 2007 proceeding
Publisher: ACM
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

On behalf of the Organization Committee, it is our pleasure to welcome you to the 22nd Annual Symposium on Applied Computing (SAC 2007). This year, the conference is hosted by Seoul Na University and Suwon University in Gyeonggi-do, Korea. ...

14 Communications of the ACM: Volume 51 Issue 8

August 2008 issue Volume 51 Issue 8
Publisher: ACM
Full text available: Digital Edition , Pdf (6.85 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 3111, Downloads (12 Months): 3111, Citation Count: 0

15 Communications of the ACM: Volume 51 Issue 9

September 2008 issue Volume 51 Issue 9
Publisher: ACM
Full text available: Digital Edition , Pdf (8.68 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 10345, Downloads (12 Months): 10345, Citation Count: 0

16

Facial modeling and animation
Jörg Haber, Demetri Terzopoulos
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: Pdf (18.15 MB) Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 96, Downloads (12 Months): 954, Citation Count: 0

In this course we present an overview of the concepts and current techniques in facial modeling animation. We introduce this research area by its history and applications. As a necessary prere facial modeling, data acquisition is discussed ...

17 A survey of processors with explicit multithreading
Theo Ungerer, Borut Robič, Jurij Šilc
March 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 1
Publisher: ACM
Full text available: Pdf (920.16 KB) Additional Information: full citation, abstract, references, cited by, index te

Bibliometrics: Downloads (6 Weeks): 56, Downloads (12 Months): 544, Citation Count: 16

Hardware multithreading is becoming a generally applied technique in the next generation of microprocessors. Several multithreaded processors are announced by industry or already into pı in the areas of high-performance microprocessors, media, ...

Keywords: Blocked multithreading, interleaved multithreading, simultaneous multithreading

18 ACM SIGACT News: Volume 36 Issue 4
December 2005 issue Volume 36 Issue 4
Publisher: ACM
Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

19 Total order broadcast and multicast algorithms: Taxonomy and survey
Xavier Défago, André Schiper, Péter Urbán
December 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 4
Publisher: ACM
Full text available: Pdf (544.45 KB) Additional Information: full citation, abstract, references, cited by, index te

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 499, Citation Count: 11

Total order broadcast and multicast (also called atomic broadcast/multicast) present an importa in distributed systems, especially with respect to fault-tolerance. In short, the primitive ensures messages sent to a set of processes are, ...

Keywords: Distributed systems, agreement problems, atomic broadcast, atomic multicast, clas distributed algorithms, fault-tolerance, global ordering, group communication, message passing taxonomy, total ordering

20 Real-time shading
Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM
Full text available: Pdf (7.39 MB) Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 62, Downloads (12 Months): 727, Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first version of this c offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or combining the effects of tens to hundreds of rendering ...

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